

Substitute for form 1449A/PTO

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

**(Use as many sheets as necessary)**

|       |   |    |   |
|-------|---|----|---|
| Sheet | 1 | of | 6 |
|-------|---|----|---|

**Complete if Known**

|                               |                          |
|-------------------------------|--------------------------|
| <b>Application Number</b>     | <b>10/655,778</b>        |
| <b>Filing Date</b>            | <b>September 5, 2003</b> |
| <b>First Named Inventor</b>   | <b>Thomas L. Beck</b>    |
| <b>Art Unit</b>               | <b>3746</b>              |
| <b>Examiner Name</b>          |                          |
| <b>Attorney Docket Number</b> | <b>7193</b>              |

## U.S. PATENT DOCUMENTS

| Examiner<br>Initials * | Cite<br>No. <sup>1</sup> | Document Number                            | Publication Date<br>MM-DD-YYYY | Name of Patentee or Applicant of<br>Cited Document | Pages, Columns, Lines, Where Relevant<br>Passages or Relevant<br>Figures Appear |
|------------------------|--------------------------|--|--------------------------------|--|---|
|                        |                          | Number - Kind Code <sup>2</sup> (if known) |                                |  |   |
| RG                     | AA                       | US- 3,343,409                              | 09/26/1967                     | Gibbs  |   |
|                        | AB                       | US- 3,585,484                              | 06/15/1971                     | Dortort  |   |
|                        | AC                       | US- 3,851,995                              | 12/03/1974                     | Mills  |   |
|                        | AD                       | US- 3,854,846                              | 12/17/1974                     | Douglas  |   |
|                        | AE                       | US- 3,915,225                              | 10/28/1975                     | Swink  |   |
|                        | AF                       | US- 3,918,843                              | 11/11/1975                     | Douglas et al.                                     |   |
|                        | AG                       | US- 3,930,752                              | 01/06/1976                     | Douglas  |   |
|                        | AH                       | US- 3,936,231                              | 02/03/1976                     | Douglas  |   |
|                        | AI                       | US- 3,938,910                              | 02/17/1976                     | Douglas  |   |
|                        | AJ                       | US- 3,951,209                              | 04/20/1976                     | Gibbs  |   |
|                        | AK                       | US- 3,963,374                              | 06/15/1976                     | Sullivan   |   |
|                        | AL                       | US- 3,965,983                              | 06/29/1976                     | Watson   |   |
|                        | AM                       | US- 3,998,568                              | 12/21/1976                     | Hynd   |   |
|                        | AN                       | US- 4,058,757                              | 11/15/1977                     | Welton et al.                                      |   |
|                        | AO                       | US- 4,102,394                              | 07/25/1978                     | Botts  |   |
|                        | AP                       | US 4,118,148                               | 10/03/1978                     | Allen  |   |
|                        | AQ                       | US- 4,145,161                              | 03/20/1979                     | Skinner  |   |
|                        | AR                       | US- 4,171,185                              | 10/16/1979                     | Duke et al.  |   |
|                        | AS                       | US- 4,194,393                              | 03/25/1980                     | Boley  |   |
|                        | AT                       | US- 4,220,440                              | 09/02/1980                     | Taylor et al.                                      |   |

## FOREIGN PATENT DOCUMENTS

[illegible]

**Examiner  
Signature**

/Ryan Gillan/

Date Considered

03/05/2007

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| Substitute for form 1449B/PTO                            |   | <b>Complete if Known</b> |                |
| <b>INFORMATION DISCLOSURE<br/>STATEMENT BY APPLICANT</b> |   | Application Number       | 10/655,778     |
|  |   | Filing Date              | 09/05/2003     |
|  |   | First Named Inventor     | Thomas L. Beck |
|  |   | Art Unit                 | 3746           |
|  |   | Examiner Name            |                |
| (Use as many sheets as necessary)                        |   | Attorney Docket Number   | 7193           |
| Sheet  | 2 | of                       | 6              |

| NON PATENT LITERATURE DOCUMENTS |                       |   |                |
|---------------------------------|-----------------------|---|----------------|
| Examiner Initials *             | Cite No. <sup>1</sup> | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T <sup>2</sup> |
| RG                              | 1                     | GIBBS, S.C.: "Predicting the Behavior of Sucker-Rod Pumping Systems", JPT (July 1963, 769-78, Trans, AIME 228).   |                |
| RG                              | 2                     | GARLOW, M.E.: Sensorless Estimation of a Sucker-Rod Pump Downhold Dynacard*, Unico, Inc., August 12, 2002.  |                |
| RG                              | 3                     | EVERITT, T.A. and JENNINGS, J.W.: An Improved Finite-Difference Calculation of Downhold Dynamometer Cards for Sucker-Rod Pumps*, Paper SPE 18189, SPE Production Engineering (February 1992).   |                |
| RG                              | 4                     | JANSEN, P.L. and LORENZ, R.D.: Accuracy Limitations of Velocity and Flux Estimation in Direct Field Oriented Induction Machines*, Power Electronics and Applications, 1993, Fifth European Conference on , 1993; 312-318, Vol. 4.                               |                |
| RG                              | 5                     | LORENZ, R.D. and LAWSON, D.B.: A Simplified Approach to Continuous On-Line Tuning of Field-Oriented Induction Machine Drives*, IEEE Transactions on Industry Applications, Vol. 26, No. 3, May/June 1990.   |                |
| RG                              | 6                     | HASAN, A.R. and KABIR, C.S.: Fluid Flow and Heat Transfer in Wellbores*, Society of Petroleum Engineers, Richardson, TX, 2002.  |                |
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| Examiner Signature | /Ryan Gillan/ | Date Considered | 03/05/2007 |
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|                        |                          | Number - Kind Code <sup>2</sup> (if known) |                                |  |   |
| RG                     | AU                       | US 4,286,925                               | 09/01/1981                     | Standish   |   |
|                        | AV                       | US 4,363,605                               | 12/14/1982                     | Mills  |   |
|                        | AW                       | US 4,390,321                               | 08/28/1983                     | Langlois et al.                                    |   |
|                        | AX                       | US 4,406,122                               | 09/27/1983                     | McDuffie   |   |
|                        | AY                       | US 4,438,628                               | 03/27/1984                     | Creamer  |   |
|                        | AZ                       | US 4,474,002                               | 10/02/1984                     | Perry  |   |
|                        | BA                       | US 4,476,418                               | 10/09/1984                     | Werner   |   |
|                        | BB                       | US 4,480,960                               | 11/08/1984                     | Streib   |   |
|                        | BC                       | US 4,483,188                               | 11/20/1984                     | McTamaney et al.                                   |   |
|                        | BD                       | US 4,487,061                               | 12/11/1984                     | McTamaney et al.                                   |   |
|                        | BE                       | US 4,490,094                               | 12/25/1984                     | Gibbs  |   |
|                        | BF                       | US 4,507,055                               | 03/26/1985                     | Fair et al.  |   |
|                        | BG                       | US 4,508,487                               | 04/02/1985                     | Taylor et al.                                      |   |
|                        | BH                       | US 4,508,488                               | 04/02/1985                     | Pikna  |   |
|                        | BI                       | US 4,509,901                               | 04/09/1985                     | McTamaney et al.                                   |   |
|                        | BJ                       | US 4,534,168                               | 08/13/1985                     | Brantly  |   |
|                        | BK                       | US 4,534,706                               | 08/13/1985                     | Palm et al.  |   |
|                        | BL                       | US 4,541,274                               | 09/17/1985                     | Purcupile  |   |
|                        | BM                       | US 4,583,915                               | 04/22/1986                     | Montgomery et al.                                  |   |
|                        | BN                       | US 4,594,665                               | 08/10/1986                     | Chandra et al.                                     |   |

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| Examiner<br>Signature | /Ryan Gillan/ | Date<br>Considered | 03/05/2007 |
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PTO/SB/08a (08-03)

Approved for use through 07/31/2008. OMB 0651-0031

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| Sheet | 4 |
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Application Number

10/655.778

Filing Date

September 5, 2003

**First Named Inventor**

**Thomas L. Beck**

**Art Unit** \_\_\_\_\_

3746

**Examiner Name**

7193

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|------------------------|--------------------------|--|--------------------------------|--|---|
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| RG                     | BO                       | US 4,631,954                               | 12/30/1986                     | Mills  |   |
|                        | BP                       | US 4,661,751                               | 04/28/1987                     | Werner   |   |
|                        | BQ                       | US 4,681,167                               | 07/21/1987                     | Soderberg  |   |
|                        | BR                       | US 4,695,779                               | 09/22/1987                     | Yates  |   |
|                        | BS                       | US 4,741,397                               | 05/03/1988                     | Weeks  |   |
|                        | BT                       | US 4,747,451                               | 05/21/1988                     | Adams Jr. et al.                                   |   |
|                        | BU                       | US 4,830,112                               | 05/16/1989                     | Erickson   |   |
|                        | BV                       | US 4,859,151                               | 08/22/1989                     | Reed   |   |
|                        | BW                       | US 4,873,635                               | 10/10/1989                     | Mills  |   |
|                        | BX                       | US 4,935,685                               | 06/19/1990                     | Justus et al.                                      |   |
|                        | BY                       | US 4,971,522                               | 11/20/1990                     | Butlin   |   |
|                        | BZ                       | US 4,973,226                               | 11/27/1990                     | McKee  |   |
|                        | CA                       | US 5,006,044                               | 04/09/1991                     | Walker Sr. et al.                                  |   |
|                        | CB                       | US 5,044,888                               | 09/03/1991                     | Hester II  |   |
|                        | CC                       | US 5,064,349                               | 11/12/1991                     | Turner et al.                                      |   |
|                        | CD                       | US 5,129,267                               | 07/14/1992                     | Nicholls   |   |
|                        | CE                       | US 5,167,490                               | 12/01/1992                     | McKee et al.                                       |   |
|                        | CF                       | US 5,180,289                               | 01/19/1993                     | Wenholz et al.                                     |   |
|                        | CG                       | US 5,204,595                               | 04/20/1993                     | Opal et al.  |   |
|                        | CH                       | US 5,222,867                               | 06/29/1993                     | Walker Sr. et al.                                  |   |

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/Ryan Gillan/

03/05/2007

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| Sheet | 5 | of | 6 |
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| RG                     | CI                       | US 5,224,834                               | 07/06/1993                     | Westerman et al.                                   |   |
|                        | CJ                       | US 5,230,607                               | 07/27/1993                     | Mann   |   |
|                        | CK                       | US 5,237,663                               | 08/24/1993                     | Dunham   |   |
|                        | CL                       | US 5,246,076                               | 09/21/1993                     | Watson   |   |
|                        | CM                       | US 5,251,696                               | 10/12/1993                     | Boone et al.                                       |   |
|                        | CN                       | US 5,252,031                               | 10/12/1993                     | Gibbs  |   |
|                        | CO                       | US 5,281,100                               | 01/25/1994                     | Diederich  |   |
|                        | CP                       | US 5,284,422                               | 02/08/1994                     | Turner et al.                                      |   |
|                        | CQ                       | US 5,316,085                               | 05/31/1994                     | Dawson   |   |
|                        | CR                       | US 5,318,409                               | 06/07/1994                     | London et al.                                      |   |
|                        | CS                       | US 5,362,206                               | 11/08/1994                     | Westerman et al.                                   |   |
|                        | CT                       | US 5,372,482                               | 12/13/1994                     | London et al.                                      |   |
|                        | CU                       | US 5,425,623                               | 06/20/1995                     | London et al.                                      |   |
|                        | CV                       | US 5,441,389                               | 08/15/1995                     | Wolcott et al.                                     |   |
|                        | CW                       | US 5,444,609                               | 08/22/1995                     | Swamy et al.                                       |   |
|                        | CX                       | US 5,458,466                               | 10/17/1995                     | Mills  |   |
|                        | CY                       | US 5,634,522                               | 06/03/1997                     | Hershberger  |   |
|                        | CZ                       | US 5,819,849                               | 10/13/1998                     | Booth  |   |
|                        | DA                       | US 5,823,262                               | 10/20/1998                     | Dutton   |   |
|                        | DB                       | 5,829,530                                  | 11/03/1998                     | Nolen  |   |

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[illegible]

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|   |   |    |   | Examiner Name          |                   |
|   |   |    |   | Attorney Docket Number | 7193              |
| Sheet   | 6 | of | 6 |                        |                   |

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